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TITLE: Device and method for low complexity of motion picture encoder

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BASIC-ABSTRACT:

NOVELTY - A device and a method for low complexity of motion picture encoder are provided to apply to various fields, and to substitute hardware for

software to be easily implemented.

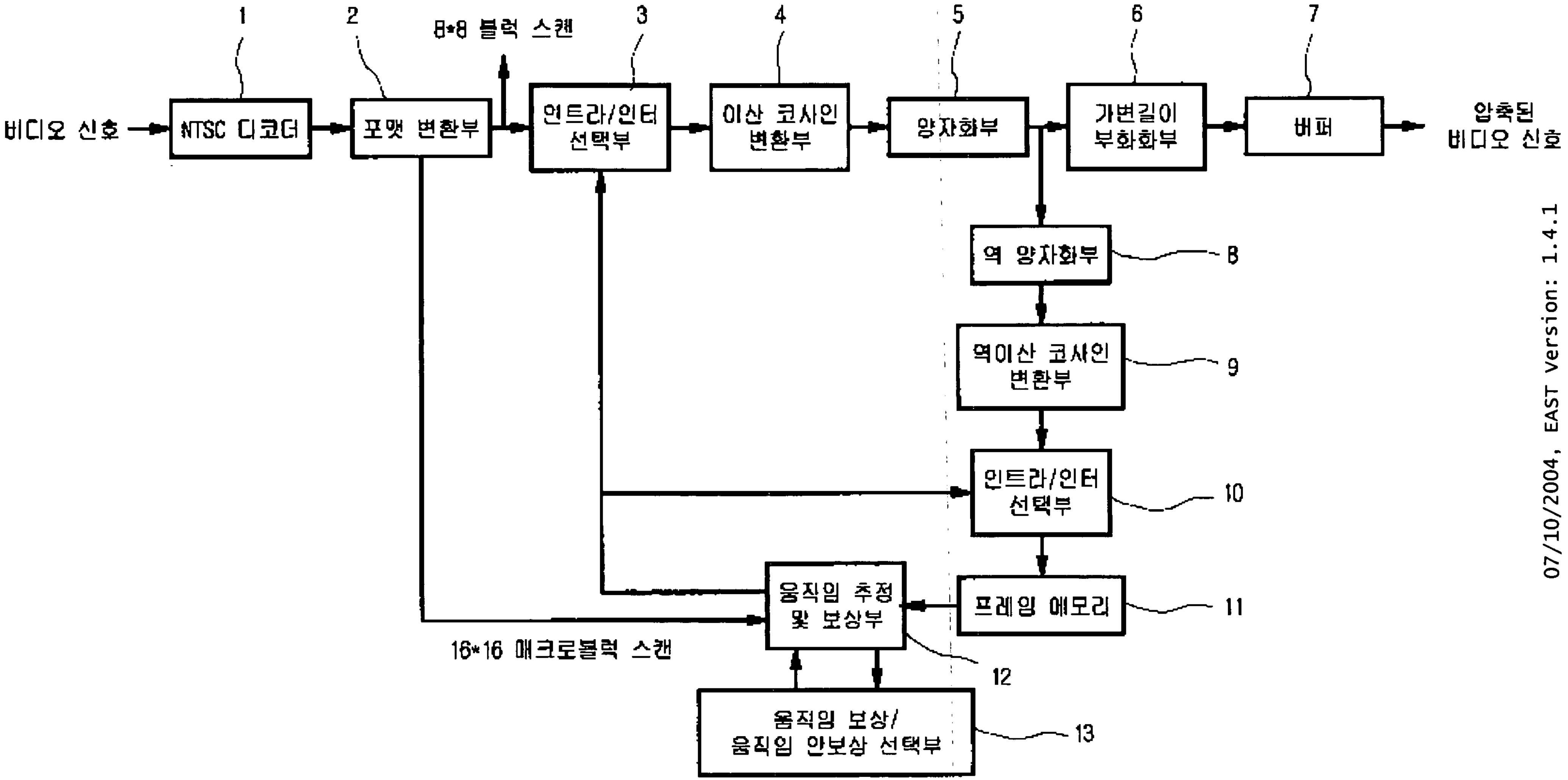
DETAILED DESCRIPTION - If a video signal through an NTSC(National Television Standards Committee) decoder(1) is converted with scanning by the block and delivered, an Inter/Inter decision unit(3) decides encoding to intra or inter for each macro block. A DCT(Discrete Cosine Transform) unit(4) converts a coefficient for conversion for the macro block into a frequency coordinate. A quantizer(5) transposes amplitude into a positive number value, for outputting. A variable length coder(6) outputs length proportioned to an algebra absolute value of appearance frequencies through a buffer in a compressed video signal. An Intra/Inter decision unit(10) decides encoding of Intra or Inter, for the macro block fed-back through a dequantizer(8) and an inverse DCT unit(9) from the quantizer(5). A motion estimation and compensation unit(12) estimate motion vector while storing the video signal in a frame memory by the one frame, and compensates the estimated motion vector. A motion compensation/motion non-compensation decision unit(13) decides whether to apply motion compensation for the video signal delivered to the motion estimation and compensation unit(12).

CHOSEN-DRAWING: Dwg.1/10

TITLE-TERMS: DEVICE METHOD LOW COMPLEX MOTION PICTURE ENCODE

DERWENT-CLASS: W02

EPI-CODES: W02-F03;


비디오 신호
NTSC 디코더
1
포맷 변환부
2
8*8 블럭 스캔
인트라/인터 선택부
3
이산 코사인 변환부
4
양자화부
5
가변길이 부화화부
6
버퍼
7
압축된 비디오 신호
역 양자화부
8
역이산 코사인 변환부
9
인트라/인터 선택부
10
프레임 메모리
11
움직임 추정 및 보상부
12
16*16 매크로블럭 스캔
움직임 보상/ 움직임 안보상 선택부
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